

Title (en)

METHOD AND DEVICE FOR PRODUCING A FUNCTIONAL PRODUCT OF BERRIES MADE INTO PUREE WITH CRUSHED SEEDS AND SKINS OF THE BERRIES AND THE PRODUCT MADE BY THIS METHOD

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES FUNKTIONALEN PRODUKT AUS BEEREN IN PÜREEFORM MIT ZERKLEINERTEN KERNEN UND HAUT DER BEEREN UND DURCH DIESES VERFAHREN HERGESTELLTES PRODUKT

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE PRODUIRE UN PRODUIT FONCTIONNEL DE BAIES RENDUES EN PURÉE COMPORTANT LES GRAINES BROYÉES ET LES PEAUX DES BAIES ET PRODUIT FABRIQUÉ PAR CE PROCÉDÉ

Publication

**EP 3164203 A1 20170510 (EN)**

Application

**EP 15712444 A 20150218**

Priority

- UA A201401629 A 20140218
- UA 2015000010 W 20150218

Abstract (en)

[origin: WO2015126350A1] This invention relates to the production of pureed products from plant materials, particularly to methods and devices to produce a functional product of berries made into a puree with crushed seeds and skins of the berries and enriched with the content of the seeds and skins such as polyunsaturated fatty acids, fat-soluble vitamins, polyphenols, among them anthocyanins with enhanced antiradical activity, the content that is not available to the human organism when berries are processed by traditional methods. The method is based on the processing of the feedstock in hydrodynamic circuits where the feedstock is subjected to pressure pulsation, turbulent friction, and cavitation bubble imploding with the resultant heating and phenols can be isolated from the feedstock in a way that minimizes their inherent destructiveness. The device for carrying out the method comprises a flow-through apparatus (1), a device (5) for removing air from the feedstock, a pump (6), a hydrodynamic baffle (7) and a centrifugal separator (9), all forming a main closed hydrodynamic circuit (8), as well as a bypass channel (10). Both method and device made it possible to produce a product having a remarkable taste and useful functional properties as well as a long shelf life.

IPC 8 full level

**B01D 21/26** (2006.01); **A23B 7/005** (2006.01); **A23L 5/20** (2016.01); **A23L 19/00** (2016.01); **A23L 21/12** (2016.01)

CPC (source: EP)

**A23B 7/005** (2013.01); **A23L 3/015** (2013.01); **A23L 19/09** (2016.07); **B01D 21/267** (2013.01)

Citation (search report)

See references of WO 2015126350A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015126350 A1 20150827**; EP 3164203 A1 20170510; UA 110064 C2 20151110

DOCDB simple family (application)

**UA 2015000010 W 20150218**; EP 15712444 A 20150218; UA A201401629 A 20140218